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(54) **IMAGE FORMING APPARATUS**

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(57) **ABSTRACT**

An image forming apparatus includes paper trays to contain and feed a recording sheet on which a toner image is transferred; status sensors to detect a storage status of the recording sheet contained in the paper trays; a sheet sensor to detect a smoothness of the recording sheet; a memory to store detection values of the smoothness detected by the sheet sensor; a fixing device to heat and press the toner image transferred onto the recording sheet and fix it onto the recording sheet; and a control circuit to determine a target fixing temperature of the fixing device based on the detection values stored in the memory. The control circuit determines the target fixing temperature for successive recording sheets depending on the detected smoothness, and resets the detection values stored in the memory to zero when the status sensors detect a change in the storage status of the paper trays.

(30) **Foreign Application Priority Data**

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(52) **U.S. Cl.**

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(58) **Field of Classification Search**

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See application file for complete search history.

8 Claims, 7 Drawing Sheets

